

Refine Search

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Terms	Documents
L3 and ((grafted near moieties) or (grafting near material) or (graft\$2 near primary near amine) or (graft\$2 near secondary near amine) or (polyurethane near oligomer) or (polyurethane near monomer) or (polyurethane near polymer) or monoamine)	11

Database:

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<i>DB=PGPB,USPT,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<u>L4</u> L3 and ((grafted near moieties) or (grafting near material) or (graft\$2 near primary near amine) or (graft\$2 near secondary near amine) or (polyurethane near oligomer) or (polyurethane near monomer) or (polyurethane near polymer) or monoamine)	11	<u>L4</u>
<u>L3</u> L2 and ((acrylic near backbone near polymer) or (acrylate near backbone))	34	<u>L3</u>
<u>L2</u> L1 and ((functional near group) or functionalized)	1494	<u>L2</u>
<u>L1</u> cyclic near carbonate	5282	<u>L1</u>

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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20040030176 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 11

File: PGPB

Feb 12, 2004

PGPUB-DOCUMENT-NUMBER: 20040030176

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040030176 A1

TITLE: Gamma hydroxy carbamate compounds and method of making and using the same

PUBLICATION-DATE: February 12, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US

US-CL-CURRENT: 560/158

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 2. Document ID: US 20030134986 A1

L4: Entry 2 of 11

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134986

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030134986 A1

TITLE: Method for determining the water solubility or water dispersibility of waterborne beta-hydroxy primary carbamate functional graft materials

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US
Herrel, Patricia A.	Hartland Township	MI	US

US-CL-CURRENT: 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMIC	Drawings
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☐ 3. Document ID: US 20030125470 A1

L4: Entry 3 of 11

File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030125470

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030125470 A1

TITLE: Method of preparing various multifunctional materials using limited starting reactants

PUBLICATION-DATE: July 3, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US
Herrel, Patricia A.	Hartland Township	MI	US

US-CL-CURRENT: 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 4. Document ID: US 20030100687 A1

L4: Entry 4 of 11

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100687 A1

TITLE: Method for selective graft polymerization

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US
Herrel, Patricia A.	Hartland Township	MI	US
Rehfuss, John W.	Huntersville	NC	US

US-CL-CURRENT: 525/498; 525/278, 525/380, 525/484

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 5. Document ID: US 20030100682 A1

L4: Entry 5 of 11

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100682

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030100682 A1

TITLE: Method for making multifunctional materials

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US
Herrel, Patricia A.	Hartland Township	MI	US

US-CL-CURRENT: 525/242

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Ds
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☐ 6. Document ID: US 6838530 B2

L4: Entry 6 of 11

File: USPT

Jan 4, 2005

US-PAT-NO: 6838530
DOCUMENT-IDENTIFIER: US 6838530 B2

TITLE: Method of preparing various multifunctional materials using limited starting reactants

DATE-ISSUED: January 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohrbom; Walter H.	Hartland Township	MI		
Herrel; Patricia A.	Hartland Township	MI		

US-CL-CURRENT: 525/498; 525/278, 525/327.2, 525/329.9, 525/374, 525/375, 525/377, 525/378

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. Ds
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☐ 7. Document ID: US 6825286 B2

L4: Entry 7 of 11

File: USPT

Nov 30, 2004

US-PAT-NO: 6825286
DOCUMENT-IDENTIFIER: US 6825286 B2

TITLE: Method for determining the water solubility or water dispersibility of waterborne beta-hydroxy primary carbamate functional graft materials

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohrbom; Walter H.	Hartland Township	MI		
Herrel; Patricia A.	Hartland Township	MI		

US-CL-CURRENT: 525/498; 525/127, 525/278, 525/329.9, 525/332.7, 525/374, 525/375, 525/377, 525/378, 525/533

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 8. Document ID: US 6812300 B2

L4: Entry 8 of 11

File: USPT

Nov 2, 2004

US-PAT-NO: 6812300

DOCUMENT-IDENTIFIER: US 6812300 B2

TITLE: Method for making multifunctional materials

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ohrbom; Walter H.	Hartland Township	MI		
Herrel; Patricia A.	Hartland Township	MI		

US-CL-CURRENT: 525/498; 525/278, 525/329.9, 525/332.7, 525/374, 525/375, 525/377, 525/378, 525/533

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 9. Document ID: US 20030125470 A1, WO 2004060936 A1, AU 2003286752 A1, US 6838530 B2

L4: Entry 9 of 11

File: DWPI

Jul 3, 2003

DERWENT-ACC-NO: 2003-765609

DERWENT-WEEK: 200515

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TITLE: Making multifunctional acrylic materials, for curable coating compositions, by polymerizing ethylenically unsaturated monomer mixture, and subjecting to reactions with grafting material and with different grafting materials and ammonia

INVENTOR: HERREL, P; OHRBOM, W ; HERREL, P A ; OHRBOM, W H

PRIORITY-DATA: 2002US-0325328 (December 20, 2002), 2001US-0998365 (November 29, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030125470 A1</u>	July 3, 2003		016	C08F002/00

WO 2004060936 A1	July 22, 2004	E	000	C08F008/32
AU 2003286752 A1	July 29, 2004		000	C08F008/32
US 6838530 B2	January 4, 2005		000	C08F008/30

INT-CL (IPC): C08 F 2/00; C08 F 8/30; C08 F 8/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	PubC	Draw D
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☐ 10. Document ID: US 20030100687 A1, WO 2003048215 A1, AU 2002313776 A1, EP 1448619 A1, BR 200214518 A, MX 2004002502 A1

L4: Entry 10 of 11

File: DWPI

May 29, 2003

DERWENT-ACC-NO: 2003-670174

DERWENT-WEEK: 200515

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TITLE: Making hydroxyl functional urethanized acrylic graft polymer, used in coatings industry as binders for thermosetting compositions, comprises reacting amine group of grafting material with cyclic carbonate functional groups

INVENTOR: HERREL, P; OHRBOM, W ; REHFUSS, J ; OHRBORN, W ; HERREL, P A ; OHRBOM, W H ; REHFUSS, J W

PRIORITY-DATA: 2001US-0998365 (November 29, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030100687 A1	May 29, 2003		008	C08F002/00
WO 2003048215 A1	June 12, 2003	E	000	C08F008/30
AU 2002313776 A1	June 17, 2003		000	C08F008/30
EP 1448619 A1	August 25, 2004	E	000	C08F008/30
BR 200214518 A	November 3, 2004		000	C08F008/30
MX 2004002502 A1	June 1, 2004		000	C08F008/30

INT-CL (IPC): C08 F 2/00; C08 F 8/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	PubC	Draw D
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☐ 11. Document ID: US 20030100682 A1, WO 2004060945 A1, US 6812300 B2, AU 2003284161 A1

L4: Entry 11 of 11

File: DWPI

May 29, 2003

DERWENT-ACC-NO: 2003-658467

DERWENT-WEEK: 200515

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TITLE: Making of multifunctional material, useful in curable coatings, comprises reacting cyclic carbonate functional group with ammonia to provide beta or higher-hydroxy primary carbamate group

INVENTOR: HERREL, P; OHRBOM, W ; HERREL, P A ; OHRBOM, W H

PRIORITY-DATA: 2002US-0325304 (December 20, 2002), 2001US-0998365 (November 29, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030100682 A1	May 29, 2003		016	C08F002/00
WO 2004060945 A1	July 22, 2004	E	000	C08F283/00
US 6812300 B2	November 2, 2004		000	C08F008/30
AU 2003284161 A1	July 29, 2004		000	C08F283/00

INT-CL (IPC): C08 F 2/00; C08 F 8/30; C08 F 8/32; C08 F 265/04; C08 F 277/00; C08 F 283/00; C08 F 283/02; C08 F 290/04; C08 F 291/00; C08 G 18/00; C09 D 151/00; C09 D 175/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	EOAC	Drawings
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Terms	Documents
L3 and ((grafted near moieties) or (grafting near material) or (graft\$2 near primary near amine) or (graft\$2 near secondary near amine) or (polyurethane near oligomer) or (polyurethane near monomer) or (polyurethane near polymer) or monoamine)	11

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L4: Entry 4 of 11

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100687

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100687 A1

TITLE: Method for selective graft polymerization

PUBLICATION-DATE: May 29, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ohrbom, Walter H.	Hartland Township	MI	US
Herrel, Patricia A.	Hartland Township	MI	US
Rehfuss, John W.	Huntersville	NC	US

APPL-NO: 09/998365 [PALM]

DATE FILED: November 29, 2001

INT-CL: [07] C08 F 2/00

US-CL-PUBLISHED: 525/498; 525/380, 525/484, 525/278

US-CL-CURRENT: 525/498; 525/278, 525/380, 525/484

ABSTRACT:

The invention relates to a method of making an acrylic graft polymer, especially a urethanized acrylic graft polymer. The method of the invention requires an ethylenically unsaturated monomer mixture (a) comprising a monomer (ai) of a particular structure having at least one cyclic carbonate group and the polymerization of the monomer mixture (a) under free radical polymerization conditions to make an acrylic backbone polymer (b) comprising one or more cyclic carbonate functional groups (bi). At least one grafting moiety (c) is then provided, said grafting moiety (c) comprising at least one amine group (ci) selected from primary amines, secondary amines, and mixtures of both primary and secondary amines. The grafting moiety (c) is then grafted onto acrylic backbone polymer (b) via reaction between the at least one amine group (ci) and cyclic carbonate functional groups (bi) so as to make an urethanized acrylic graft polymer.

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